



Revit Architecture - Fundamentals Training



This training course is designed to teach you the Autodesk Revit functionality as you would work with it throughout the design process.



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01642-677582



sales@cadservices.co.uk



www.cadservices.co.uk

Objectives

The objective of the Autodesk Revit Architecture Fundamentals training course is to enable students to create full 3D architectural project models and set them up in working drawings. This training course focuses on basic tools that the majority of users need. You begin by learning about the user interface and basic drawing, editing, and viewing tools. Then you learn design development tools including how to model walls, doors, windows, floors and more. Finally, you learn the processes that take the model to the construction documentation phase.

Course Outline

- 1) Introduction to BIM and Autodesk Revit
- 2) Basic Drawing and Modify Tools
- 3) Setting Up Levels and Grids
- 4) Modelling Walls
- 5) Working with Doors and Windows
- 6) Working with Curtain Walls
- 7) Working with Views
- 8) Adding Components
- 9) Modelling Floors
- 10) Modelling Ceilings
- 11) Modelling Roofs
- 12) Modelling Stairs, Railings, and Ramps
- 13) Creating Construction Documents
- 14) Annotating Construction Documents
- 15) Adding Tags and Schedules
- 16) Creating Details

Prerequisites

- An understanding of architectural terminology is an asset.

Course Duration: 2 Days

Topic's Covered

- Understanding the purpose of Building Information Modelling and how to apply it in Revit.
- Navigating the workspace and interface.
- Creating 3D building model with walls, curtain wall, windows and more.
- Adding component features such as furniture and equipment.
- Setting up sheets for plotting with text, dimensions, tags and schedules.



Detailed Course Outline

Introduction to BIM and Autodesk Revit

- BIM and Autodesk Revit
- Overview of the Interface
- Starting Projects
- Viewing Commands

Basic Drawing and Modify Tools

- Using General Drawing Tools
- Editing Elements
- Working with Basic Modify Tools
- Working with Additional Modify Tools

Setting Up Levels and Grids

- Setting Up Levels
- Creating Structural Grids
- Adding Columns
- Linking and Importing CAD Files

Modelling Walls

- Modelling Walls
- Modifying Walls

Working with Doors and Windows

- Inserting Doors and Windows
- Loading Door and Window Types from the Library
- Creating Additional Door and Window Sizes

Working with Curtain Walls

- Creating Curtain Walls
- Adding Curtain Grids
- Working with Curtain Wall Panels
- Attaching Mullions to Curtain Grids

Working with Views

- Setting the View Display
- Duplicating Views
- Adding Callout Views
- Elevations and Sections

Adding Components

- Adding Components
- Modifying Components

Modelling Floors

- Modelling Floors
- Creating Shaft Openings
- Creating Sloped Floors

Modelling Ceilings

- Modelling Ceilings
- Adding Ceiling Fixtures
- Creating Ceiling Soffits

Modelling Roofs

- Modelling Roofs
- Creating Roofs by Footprint
- Establishing Work Planes
- Creating Roofs by Extrusion

Modelling Stairs, Railings, and Ramps

- Creating Component Stairs
- Modifying Component Stairs
- Working with Railings
- Sketching Custom Stairs
- Creating Ramps



Detailed Course Outline

Creating Construction Documents

- Setting Up Sheets
- Placing and Modifying Views on Sheets
- Printing Sheets

Annotating Construction Documents

- Working with Dimensions
- Working with Text
- Adding Detail Lines and Symbols
- Creating Legends

Adding Tags and Schedules

- Adding Tags
- Adding Rooms and Tags
- Working with Schedules

Creating Details

- Setting up Detail Views
- Adding Detail Components
- Annotating Details
- Keynoting and Keynote Legends

